

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/517,544
Source: PG/10
Date Processed by STIC: 12/20/04

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 12/20/2004

PATENT APPLICATION: US/10/517,544

TIME: 15:03:49

Input Set : A:\1336(PCT)SEQUENCE.txt

Output Set: N:\CRF4\12202004\J517544.raw

```

3 <110> APPLICANT: RIKEN
4   KABUSHIKI KAISHA DNAFORM
6 <120> TITLE OF INVENTION: Method for utilizing the 5'end of mRNA for cloning and
analysis
8 <130> FILE REFERENCE: 1336(PCT)
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/517,544
C--> 10 <141> CURRENT FILING DATE: 2004-12-10
10 <150> PRIOR APPLICATION NUMBER: JP 2002-171851
11 <151> PRIOR FILING DATE: 2002-06-12
13 <150> PRIOR APPLICATION NUMBER: JP 2002-235294
14 <151> PRIOR FILING DATE: 2002-08-12
16 <160> NUMBER OF SEQ ID NOS: 77
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 74
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial
25 <220> FEATURE:
26 <223> OTHER INFORMATION: First strand cDNA primer
28 <220> FEATURE:
29 <221> NAME/KEY: misc_feature
30 <222> LOCATION: (73)..(73)
31 <223> OTHER INFORMATION: "v" is A, C or G
34 <220> FEATURE:
35 <221> NAME/KEY: misc_feature
36 <222> LOCATION: (74)..(74)
37 <223> OTHER INFORMATION: "n" is any nucleotide
40 <400> SEQUENCE: 1
41 gagagagaga aaggatcctg ccatttcatt acctctttct ccgcacccga catagatttt      60
W--> 43 tttttttttt ttvn                                                    74
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 60
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Upper oligonucleotide GNS
54 <220> FEATURE:
55 <221> NAME/KEY: misc_feature
56 <222> LOCATION: (56)..(60)
57 <223> OTHER INFORMATION: "n" is any nucleotide
60 <400> SEQUENCE: 2
W--> 61 agagagagac ctcgagtaac tataacgggtc ctaaggtagc gacctagggtc cgacgnnnnn      60
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 60

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p.6

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66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Upper oligonucleotide N6
72 <220> FEATURE:
73 <221> NAME/KEY: misc_feature
74 <222> LOCATION: (55)..(60)
75 <223> OTHER INFORMATION: "n" is any nucleotide
78 <400> SEQUENCE: 3
W--> 79 agagagagac ctcgagtaac tataacgggc ctaaggtagc gacctagggc cgacnnnnnn 60
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 54
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Lower oligonucleotide
90 <400> SEQUENCE: 4
91 gtcggaccta ggtcgctacc ttaggaccgt tatagttact cgaggctctt ctct 54
94 <210> SEQ ID NO: 5
95 <211> LENGTH: 55
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial
99 <220> FEATURE:
100 <223> OTHER INFORMATION: primer
102 <400> SEQUENCE: 5
103 agagagagac ctcgagtaac tataacgggc ctaaggtagc gacctagggc cgacg 55
106 <210> SEQ ID NO: 6
107 <211> LENGTH: 45
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial
111 <220> FEATURE:
112 <223> OTHER INFORMATION: linker
114 <400> SEQUENCE: 6
115 tctagatcag gactcttcta tagtgtcacc taaagtctct ctctc 45
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 47
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial
123 <220> FEATURE:
124 <223> OTHER INFORMATION: linker
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <222> LOCATION: (46)..(47)
129 <223> OTHER INFORMATION: "n" is any nucleotide
132 <400> SEQUENCE: 7
W--> 133 gagagagaga ctttaggtga cactatagaa gaggctgat ctagann 47
136 <210> SEQ ID NO: 8
137 <211> LENGTH: 25
138 <212> TYPE: DNA

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139 <213> ORGANISM: Artificial
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Primer 1 (uni-PCR)
144 <400> SEQUENCE: 8
145 gagagagaga ctttaggtga cacta 25
148 <210> SEQ ID NO: 9
149 <211> LENGTH: 25
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Primer 2 (MmeI-PCR)
156 <400> SEQUENCE: 9
157 agagagagac ctcgagtaac tataa 25
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 44
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: first strand oligo-dT primer
168 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <222> LOCATION: (43)..(43)
171 <223> OTHER INFORMATION: "v" is A, C or G
174 <220> FEATURE:
175 <221> NAME/KEY: misc_feature
176 <222> LOCATION: (44)..(44)
177 <223> OTHER INFORMATION: "n" is any nucleotide
180 <400> SEQUENCE: 10
W--> 181 gagagagaga ggatccttct ggagagtttt tttttttttt ttvn 44
184 <210> SEQ ID NO: 11
185 <211> LENGTH: 45
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Oligonucleotide Bg-Gsu-GN5
192 <220> FEATURE:
193 <221> NAME/KEY: misc_feature
194 <222> LOCATION: (41)..(45)
195 <223> OTHER INFORMATION: "n" is any nucleotide
198 <400> SEQUENCE: 11
W--> 199 agagagagaa ctaggcttaa taggtgacta gatctggagg nnnnn 45
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 45
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Oligonucleotide Bg-Gsu-N6
210 <220> FEATURE:
211 <221> NAME/KEY: misc_feature

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212 <222> LOCATION: (40)..(45)
213 <223> OTHER INFORMATION: "n" is any nucleotide
216 <400> SEQUENCE: 12
W--> 217 agagagagaa ctaggcttaa taggtgacta gatctggagn nnnnn 45
220 <210> SEQ ID NO: 13
221 <211> LENGTH: 39
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Oligonucleotide Bg-Gsu-down
228 <400> SEQUENCE: 13
229 ctggagatct agtcacctat taagcctagt tctctctct 39
232 <210> SEQ ID NO: 14
233 <211> LENGTH: 47
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Oligonucleotide Bg-Mme-GN5
240 <220> FEATURE:
241 <221> NAME/KEY: misc_feature
242 <222> LOCATION: (43)..(47)
243 <223> OTHER INFORMATION: "n" is any nucleotide
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (39)..(39)
249 <223> OTHER INFORMATION: "r" is G or A
252 <400> SEQUENCE: 14
W--> 253 agagagagaa ctaggcttaa taggtgacta gatcttcra cgnnnnn 47
256 <210> SEQ ID NO: 15
257 <211> LENGTH: 47
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Oligonucleotide Bg-Mme-N6
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (42)..(47)
267 <223> OTHER INFORMATION: "n" is any nucleotide
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (39)..(39)
273 <223> OTHER INFORMATION: "r" is G or A
276 <400> SEQUENCE: 15
W--> 277 agagagagaa ctaggcttaa taggtgacta gatcttcra cnnnnnn 47
280 <210> SEQ ID NO: 16
281 <211> LENGTH: 40
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial
285 <220> FEATURE:

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286 <223> OTHER INFORMATION: Oligonucleotide Bg-Mme-down
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (3)..(3)
291 <223> OTHER INFORMATION: "y" is C or T
294 <400> SEQUENCE: 16
295 gtyggagatc tagtcaccta ttaagcctag ttctctctct      40
298 <210> SEQ ID NO: 17
299 <211> LENGTH: 47
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial
303 <220> FEATURE:
304 <223> OTHER INFORMATION: oligonucleotide
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
308 <222> LOCATION: (46)..(47)
309 <223> OTHER INFORMATION: "n" is any nucleotide
312 <400> SEQUENCE: 17
W--> 313 gagagagaga ctttaggtga cactatagaa gagtcctgag aattcnn      47
316 <210> SEQ ID NO: 18
317 <211> LENGTH: 45
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial
321 <220> FEATURE:
322 <223> OTHER INFORMATION: oligonucleotide
324 <400> SEQUENCE: 18
325 gaattctcag gactcttcta tagtgtcacc taaagtctct ctctc      45
328 <210> SEQ ID NO: 19
329 <211> LENGTH: 49
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial
333 <220> FEATURE:
334 <223> OTHER INFORMATION: linker
336 <220> FEATURE:
337 <221> NAME/KEY: misc_feature
338 <222> LOCATION: (45)..(49)
339 <223> OTHER INFORMATION: "n" is any nucleotide
342 <400> SEQUENCE: 19
W--> 343 agagagagag cttagatgag agtgactcga gcctaggtcc aacgnnnnn      49
346 <210> SEQ ID NO: 20
347 <211> LENGTH: 49
348 <212> TYPE: DNA
349 <213> ORGANISM: Artificial
351 <220> FEATURE:
352 <223> OTHER INFORMATION: linker
354 <220> FEATURE:
355 <221> NAME/KEY: misc_feature
356 <222> LOCATION: (44)..(49)
357 <223> OTHER INFORMATION: "n" is any nucleotide

```

RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/10/517,544

DATE: 12/20/2004
 TIME: 15:03:50

Input Set : A:\1336(PCT)SEQUENCE.txt
 Output Set: N:\CRF4\12202004\J517544.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. ~~7~~⁴
 Seq#:2; N Pos. ~~56,57,58,59,60~~
 Seq#:3; N Pos. ~~55,56,57,58,59,60~~
 Seq#:7; N Pos. ~~46,47~~
 Seq#:10; N Pos. ~~44~~
 Seq#:11; N Pos. ~~41,42,43,44,45~~
 Seq#:12; N Pos. ~~40,41,42,43,44,45~~
 Seq#:14; N Pos. ~~43,44,45,46,47~~
 Seq#:15; N Pos. ~~42,43,44,45,46,47~~
 Seq#:17; N Pos. ~~46,47~~
 Seq#:19; N Pos. ~~45,46,47,48,49~~
 Seq#:20; N Pos. ~~44,45,46,47,48,49~~
 Seq#:28; N Pos. 432,436,456
 Seq#:29; N Pos. 1
 Seq#:30; N Pos. 1,20
 Seq#:73; N Pos. 1

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
 Seq#:29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52
 Seq#:53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75

VERIFICATION SUMMARY

DATE: 12/20/2004

PATENT APPLICATION: US/10/517,544

TIME: 15:03:50

Input Set : A:\1336(PCT)SEQUENCE.txt

Output Set: N:\CRF4\12202004\J517544.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:420
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:1091 M:258 W: Mandatory Feature missing,, <223> Blank for SEQ#:76,Line#:1089